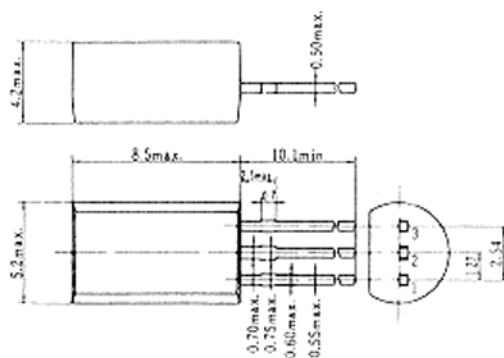


2SD468

SILICON NPN EPITAXIAL

LOW FREQUENCY POWER AMPLIFIER

Complementary pair with 2SB562



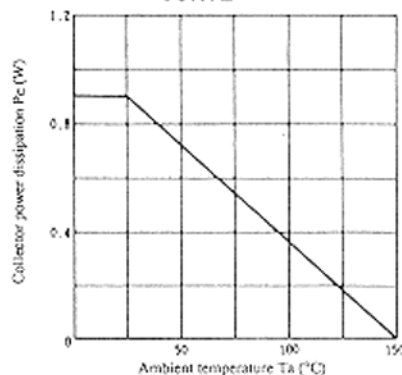
(JEDEC TO-92 MOD.)

1. Emitter
 2. Collector
 3. Base
- (Dimensions in mm)

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SD468	Unit
Collector to base voltage	V_{CBO}	25	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	I_C	1.0	A
Collector peak current	$i_{C(peak)}$	1.5	A
Collector power dissipation	P_C	0.9	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

■ MAXIMUM COLLECTOR DISSIPATION CURVE



■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

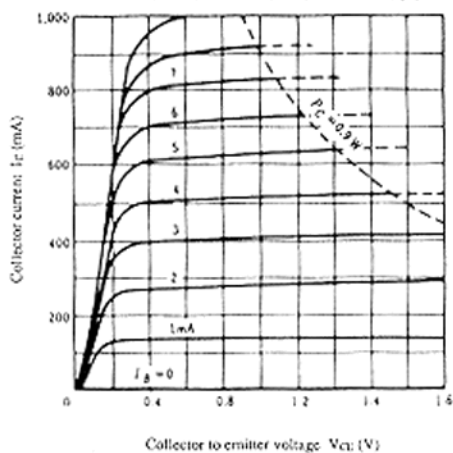
Item	Symbol	Test Condition	min.	typ.	max.	Unit
Collector to base breakdown voltage	$V_{(BR)CBO}$	$I_C = 10\mu A, I_E = 0$	25	—	—	V
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1mA, R_{BE} = \infty$	20	—	—	V
Emitter to base breakdown voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = 0$	5	—	—	V
Collector cutoff current	I_{CBO}	$V_{CB} = 20V, I_E = 0$	—	—	1.0	μA
DC current transfer ratio	h_{FE}^*	$V_{CE} = 2V, I_C = 0.5A^{**}$	85	—	240	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 0.8A, I_B = 0.08A^{**}$	—	0.2	0.5	V
Base to emitter voltage	V_{BE}	$V_{CE} = 2V, I_C = 0.5A^{**}$	—	0.79	1.0	V
Gain bandwidth product	f_T	$V_{CE} = 2V, I_C = 0.5A^{**}$	—	190	—	MHz
Collector output capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$	—	22	—	pF

* The 2SD468 is grouped by h_{FE} as follows.

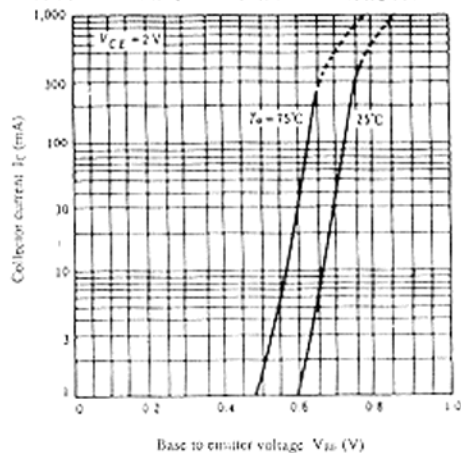
** Pulse Test

B	C
85 to 170	120 to 240

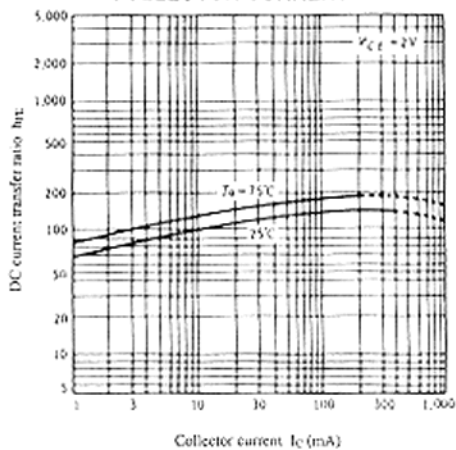
TYPICAL OUTPUT CHARACTERISTICS



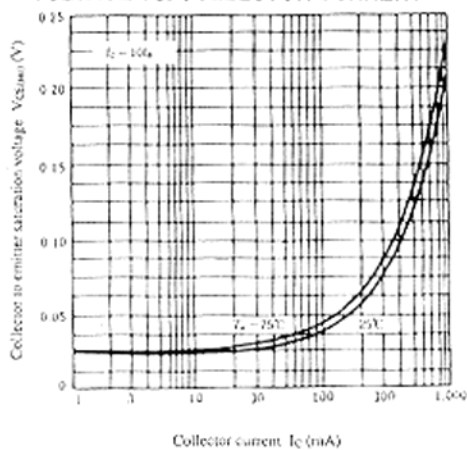
TYPICAL TRANSFER CHARACTERISTICS



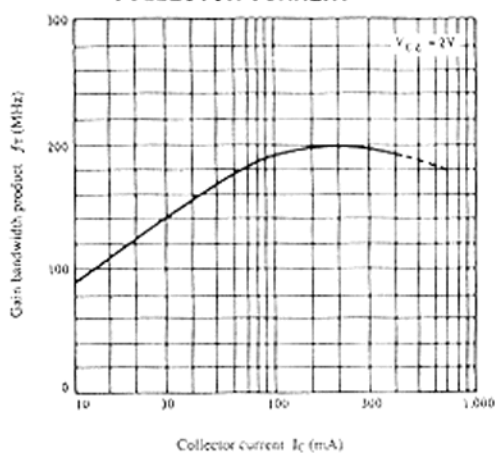
DC CURRENT TRANSFER RATIO VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. COLLECTOR CURRENT



GAIN BANDWIDTH PRODUCT VS. COLLECTOR CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE

